

19990510.ba v02_n540.bam.990510

>From ???@??? Tue May 11 03:08:52 1999
Message-Id: <199905101734.MAA01699@sco.theporch.com>
Date: Mon, 10 May 1999 12:33:55 CDT
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 2540

BOATANCHORS Digest 2540

Topics covered in this issue include:

- 1) Globe Scouts and a few tidbits for sale
by w4kh@jackatak.theporch.com (Jack GF Hill, W4KH)
- 2) Need DBM meter for HP606A
by Greg Carter <kx4r@atl.mindspring.com>
- 3) Lafayette HE-74 VFO man/schem needed
by Greg Carter <kx4r@atl.mindspring.com>
- 4) Dayton BA List; Spaces 3225/3226
by GEORGE J MISIC <ke8rn@juno.com>
- 5) Re: LSB mod for military radios
by John Kolb <jlkolb@cts.com>
- 6) Re: LSB mod for military radios
by John Kolb <jlkolb@cts.com>
- 7) Re: LSB mod for military radios (long)...0ooooooooohhhhhh!
by "Arden Allen" <gumbear@pacbell.net>
- 8) FS: misc tubes
by Raymond Cote <rcote@pixi.com>
- 9) FS: power tubes
by Raymond Cote <rcote@pixi.com>
- 10) FS: tubes
by Raymond Cote <rcote@pixi.com>
- 11) Re: LSB Mod - Receiving??
by "Don L. Davis" <dxguy@earthlink.net>
- 12) More on the Clegg Interceptor
by thompson@mindspring.com
- 13) Re: LSB Mod - Receiving??
by "Roberta J. Barmore" <rbarmore@indy.net>
- 14) WTB: Roll cabinet for Simpson 260 (fwd)
by "Roberta J. Barmore" <rbarmore@indy.net>
- 15) Re: recommended lube?
by "Roberta J. Barmore" <rbarmore@indy.net>
- 16) Wanted: Book "Vacuum Tube Oscillators"
by Chip Owens <owens@atd.ucar.edu>
- 17) Dayton List of boat anchor folks
by "William L. Fuqua III" <wlfluqu00@pop.uky.edu>
- 18) DAYTON FOLKS...Keep eyes peeled!

- by "Sandy Blaize" <ebjr@worldnet.att.net>
- 19) RE: LSB mod for military radios
by cswiger <cswiger@wilma.widomaker.com>
 - 20) Re: recommended lube? -Reply
by Bob Reynolds <breynd@sigg.com>
 - 21) Re: LSB mod for military radios
by David Ross <ross@hypertools.com>
 - 22) Hallicrafters SX-10 FS
by Don <71333.144@compuserve.com>
 - 23) Hammarlund Super Pro parts radio
by "John K9UWA" <k9uwa@cris.com>
 - 24) Re: LSB mod for military radios (long)...0ooooooooohhhhhh!
by John Kolb <jlkolb@cts.com>

Message-Id: <199905100345.WAA05874@jackatak.theporch.com>
From: w4kh@jackatak.theporch.com (Jack GF Hill, W4KH)
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Globe Scouts and a few tidbits for sale
Date: Sun, 9 May 1999 22:45:20 -0500 (CDT)

Gang-

As part of my "lighten the load" campaign, I have two Globe Scout Deluxe models for sale, of undetermined completeness and function. They are fairly clean cosmetically, but have been stored away in who knows what environment and who remembers where for who knows how long.

I have never tried to fire them up, and uncovered them as I was cleaning the garage in my move to smaller private quarters.

Also there is a Philbrick Researches R-300 power supply.

And an "HBR-13C" homebrew receiver in pretty darned nice shape, save the VFO dial which is missing a screw and dangling from the right side. I got this one at an auction in 1979 and never did anything with it, my best intentions having found no time.

NO documentation for these gems... Prices are real negotiable, and "winners" need to adhere to the "Rules of Ware" and let me know before 00:00Z 12 May (Wednesday) when I pack'em or leave'em...

I can deliver them to Dayton and would prefer not to ship... BUT, I can be convinced ;^)

Never having sold anything on this list, I sure hope I am doing this right! ;^)

--

73, Jack W4KH

w4kh@jackatak.theporch.com - "Plus ca change, plus c'est la meme chose"

"Il n'y a que les idiots qui ne changent jamais d'idee"

Message-Id: <3.0.5.16.19990509235746.31678a98@pop.atl.mindspring.com>

Date: Sun, 09 May 1999 23:57:46 -0400

To: Old Tube Radios <boatanchors@theporch.com>

From: Greg Carter <kx4r@atl.mindspring.com>

Subject: Need DBM meter for HP606A

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Hello gang !

I've just been given an HP606A generator

with a bad meter.....anyone have a junker out

there ? It's the meter on the right as your looking

at the front panel of the unit.

Tnx and 73 !

Greg KX4R

kx4r@mindspring.com

Message-Id: <3.0.5.16.19990510000254.316778e2@pop.atl.mindspring.com>

Date: Mon, 10 May 1999 00:02:54 -0400

To: Old Tube Radios <boatanchors@theporch.com>

From: Greg Carter <kx4r@atl.mindspring.com>

Subject: Lafayette HE-74 VFO man/schem needed

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Greetings !

I found a Lafayette HE-74 VFO (80-6 mtrs) at the

Anderson Hamfest Saturday and would like to find

a manual and schematic for it. I plan to use this

with my Hallicrafters HT-40 station. This is a

very well constructed VFO and reminds me of early

Kenwood stuff.....could it be of Japanese manufacture ?

Uses 2 6BA6's, a 6AQ5 and an OA2.

Tnx for any help !

73, Greg KX4R

kx4r@mindspring.com

To: Old Tube Radios <boatanchors@theporch.com>

Cc: boatanchors@theporch.com

Subject: Dayton BA List; Spaces 3225/3226
Message-ID: <19990510.005938.10231.0.KE8RN@juno.com>
From: GEORGE J MISIC <ke8rn@juno.com>
Date: Mon, 10 May 1999 01:01:12 EDT

Hello all,

Here is my list of BAs that I am planning to take to Dayton. These are mostly the duplicates from my BA collection. I am interested in trades or offers on them. 73; hope to see many of you in Dayton. I'm the big guy in the red shirt with the lovely wife, spaces 3225 and 3226.

Ameco TX-62, good condition \$70
Clegg Apollo, excellent condition \$275
Clegg 22er, excellent \$140
Clegg 99er, very good \$65
Clegg ACPS for Venus [parts unit] \$40
Collins 30L-1, good, repainted, complete \$450
Collins 32S-1, very good \$350
Collins 75S-3, excellent \$550
Collins PM-2, good, but extra holes \$80
Drake R-4A, very good \$160
Drake R-4B, very good \$180
Drake TR-22C, very good, broken antenna \$50
Drake T-4XC, very good \$200
Gonset Communicator III, 6M [parts unit] \$40
Gonset Communicator IV, 2M very good except paint \$125
Hallicrafters HT-40, good \$60
Hallicrafters HT-44, very good+ \$225
Hallicrafters PS-150-120 [parts unit] \$60
Hallicrafters SR-42, good \$75
Hammarlund HQ-110C, very good but broken meter pointer \$110
Hammarlund HQ-129X, excellent \$140
Heathkit HP-23A, excellent \$60
Heathkit HR-1680, restorable \$80/offer
Heathkit HX-1681, very good \$80
Heathkit SB-303, excellent but wrong power cord \$150
Heathkit CW filter \$50
Heathkit 250 Hz CW Filter \$50
National VFO-62, very good \$50
RME VHF-152, very good \$40
Swan VX-1, excellent \$25
Swan 510-X, good and rare \$50
Utica 650, good but no back panel \$50
Utica VFO-650, very good \$20
Yaesu FR-101SD, like new in box \$350
Yaesu FT-101, like new in box \$300
Yaesu YO-100, like new in box \$150

George KE8RN

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Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 9 May 1999 22:10:22 -0700 (PDT)
From: John Kolb <jlkolb@cts.com>
To: Old Tube Radios <boatanchors@theporch.com>
cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: LSB mod for military radios
Message-ID: <Pine.SCO.4.05.9905092159040.28932-100000@sd.cts.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 9 May 1999, David Ross wrote:

> BAfolks -
>
> Many military radios operate in USB mode only. The problem in getting
> these radios to work on the ham bands is mainly one of changing the radio
> from USB-only operation to LSB operation, or better yet providing a simple
> and non-intrusive way to switch sidebands.
>
> While at the recent MRCG meet in San Luis Obispo, I heard Bjorn Forsberg
> mention that he knew some folks who had used an audio 'speech inverter' to
> effectively do a sideband inversion in a radio's audio stages. Does anyone
> know how this is done?

Interesting idea, and should work, but would have the effect of shifting
the SSB carrier freq 3 kHz or so from what the dial says, so be careful at
dial edges or checking into the net :)

>
> Apparently, speech inversion can be done by digitizing the analog audio,
> then inverting every other bit, and then converting back to analog audio.
> Is it as simple as this? Is there an comparable analog technique?
No, can't believe that would work - it would be a method of scrambling
speech, but not providing frequency inverted. The sort of inverted speech
needed for this would be made by low pass filtering the audio to less
than 3 kHz, mixing with a 3 kHz carrier, and low pass filtering the
mixer output to get it's LSB. Thus a 2.5 kHz audio tone would give
500 Hz out, and 500 hz in would give 2.5 kHz out. Using tube amps
and mixers of course :)

The more usual method of conversion would be to change the BFO freq to generate the opposite sideband, or if a SSB mechanical filter is used, to replace with the opposite filter. The PRC-47, for example, uses the F500Z-5 LSB filter to generate USB transmissions. Replacing with F500Z-4 USB filter creates a LSB transceiver.

John KK6IL

>
> 73
> Dave Ross N7EPI ross@hypertools.com
>
>
>
>

Date: Sun, 9 May 1999 22:25:26 -0700 (PDT)
From: John Kolb <jlkolb@cts.com>
To: Old Tube Radios <boatanchors@theporch.com>
cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: LSB mod for military radios
Message-ID: <Pine.SCO.4.05.9905092222080.28932-1000000@sd.cts.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 9 May 1999, David Ross wrote:

> This Digital Signal Processing stuff is a mystery to me, too. It's
> pretty easy to see how a Direct-Conversion receiver can detect AM or even
> USB, but thinking about how a DC receiver can detect LSB just gives me a
> headache...

A DC receiver would detect a LSB signal exactly the same way it detects an USB one.

A USB transmission of 7.2 MHz would transmit a 1 kHz audio tone as 7,201 kHz, and the DC receiver would mix the received signal with a 7,200 kHz VFO to generate a 1 kHz recovered audio freq.

A LSB transmission of 7.2 MHz would transmit a 1 kHz audio tone as 7,199 kHz, and the DC receiver would mix the received signal with a 7,200 kHz VFO to generate a 1 kHz recovered audio freq.

John KK6IL

Message-Id: <199905100725.AAA11833@mail-gw.pacbell.net>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: LSB mod for military radios (long)...0ooooooooohhhhhh!
Date: Mon, 10 May 1999 00:27:06 -0700
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Thanks fellows for the clarifications.

Turning the microphone upside down doesn't do the job. Playing the piano backwards does. Audio FREQUENCY inversion before feeding it to the balanced modulator, why not? Simply, you have to use an additional balanced modulator to get frequency inverted audio to send to the USB rig. The additional balanced modulator uses a carrier frequency just above the audio passband and a low pass filter to reject the sum frequencies produced. The difference frequencies are the spectrum inverted audio to be sent to the transmitter. That is a fairly simple analog technique to implement.

You still have one problem left as David Newkirk points out. The transmitted sideband is still ABOVE the RF carrier frequency (upside down erect sideband, or right side up inverted sideband?). You can't depend on an absolute receiving frequency because you don't know exactly where the "carrier" is unless told where to listen. Not a problem if you are just tuning the bands and listening. I don't think military rigs have split mode capability so you would have to change operating frequency between transmit and receive. I don't think we have a practical modification yet.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

Message-ID: <37368A15.EF12223D@pixi.com>
Date: Sun, 09 May 1999 21:26:13 -1000
From: Raymond Cote <rcote@pixi.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: FS: misc tubes
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

Need to cull my store room (closet) and get these out of my hands to where they can be used.

13 ea	5691	GTE Sylvania	black base
	\$12		
1 ea	5691	Fed Sup. code 25579	brown base
	\$10		
10 ea	5691	Philips	black base
	\$12		
16 ea	5691	Richardson Elect	brown base
	\$ 9		
13 ea	5691	Sylvania	black base
	\$12		
4 ea	5842/417A	Amperex	Gold pin
	\$ 4		
4 ea	5847/404A	Amperex	gold pins used
	\$ 4		
2 ea	6550A	General Electric	
	\$27		
5 ea	407A	Western Electric w/ierc shields used	
	\$4		
6 ea	310A	Western Electric w/split cokebottle shaped	
shields		\$50 in AES, asking \$20--Pulls but good.	

The 310A were used in the SD ATT cable that has been a subject of discussion for a while. The cable goes from Hawaii to Guam. These were used in the amplifiers on shore and were not in the repeater amplifiers under water. They are coke bottle shaped, are about 6" tall, have a split conformal shield and come with the socket. The 407A were also in the SD ATT electronics radks, but I don't remember which module or their use.

All tubes are NOS except those marked

 Raymond Côté
 1405 Dominis ST #105
 Honolulu, HI 96822-3213

 Message-ID: <37368B12.FA0883E6@pixi.com>
 Date: Sun, 09 May 1999 21:30:26 -1000
 From: Raymond Cote <rcote@pixi.com>
 MIME-Version: 1.0
 To: Old Tube Radios <boatanchors@theporch.com>
 Subject: FS: power tubes
 Content-Type: text/plain; charset=iso-8859-1
 Content-Transfer-Encoding: 8bit

Have half a dozen NEW (in original cans) 3CX350A/8321 and 4CX350A
They are priced at \$100.00 ea. or take 25% discount over 3 ea.

Raymond CÙtÈ
1405 Dominis ST #105
Honolulu, HI 96822-3213

Message-ID: <37368CA9.53D785BE@pixi.com>
Date: Sun, 09 May 1999 21:37:13 -1000
From: Raymond Cote <rcote@pixi.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: FS: tubes
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

2 ea 8187/4PR65A Eimac brand, new -- \$120 ea less 20%

4 ea 6JE6C/6LQ6 GE and RCA \$40 in AES. Now \$30 each or 4 for \$100.

In original boxes--2 new 2 barely used, test as new.

Raymond CÙtÈ
1405 Dominis ST #105
Honolulu, HI 96822-3213

Message-ID: <3736A23B.4DAF@earthlink.net>
Date: Mon, 10 May 1999 01:10:04 -0800
From: "Don L. Davis" <dxguy@earthlink.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: LSB Mod - Receiving??
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Good discussion of how to "transmit" LSB on USB mil rigs. I'm convinced
it will work & will try it on an ARC38 I've got.

One problem: How do we easily "receive" LSB on a USB rig? Run the
audio through the same audio box as used to invert the spectrum for
transmitting? Will this processing (RX or TX) distort the audio
excessively?

Don Davis

From: thompson@mindspring.com
Message-ID: <000301be9aec\$25f62400\$ae3556d1@default>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: More on the Clegg Interceptor
Date: Mon, 10 May 1999 09:01:54 -0400

I cleaned the Clegg receiver off and plugged it in and it works. On 2 meters I hear packet S9 and some of the repeaters. No AM, CW , or SSB heard but it was nearly 11PM. On 6 meters I heard weak CW at 50.1 and SSB at 50.5. (using my 40 meter beam). To check 2 meter calibration I turned my power down to zero and transmitted with the 25W 2 meter TX on 147.51 and the sig tuned in at 147.51 on the main scale.

Two questions (before I get a better manual for alignment) do these have a birdie on each band? I hear a S9 carrier on 50.8 and 144.4 with or without antenna. I also note the receiver tunes about 50 units per each 100Kcs on 6 meters (so 2Kcs readout). I thought I remembered 1 kcs?

Only other problem is the paint on top is rough and there is paint on the main tuning knob and the filter (low, med, high) switch).

Dave K4JRB

Date: Mon, 10 May 1999 08:56:26 -0500 (EST)
From: "Roberta J. Barmore" <rbarmore@indy.net>
To: Old Tube Radios <boatanchors@theporch.com>
cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: LSB Mod - Receiving??
Message-ID: <Pine.SUN.4.10.9905100827210.3850-100000@indy1>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi!

One of the interesting things about most SSB transceiver designs is they use the same little functional block to *demodulate* the sig as they do to *modulate* it; if an audio frequency inverter is inserted at the proper point, both transmit and receive will *appear* to be the "other" sideband and except for an offset between displayed freq and actual freq, the transceiver will function normally.

In actual fact, the suppressed carrier will *still* be lower in freq than the audio (still USB!); but it's suppressed, and can in practice be

ignored. The ham at the other end has to tune the sigs as though they were LSB to make the audio "rightside up," and unless your carrier suppression is poor, will never know it is not. Likewise, you'll be tuning his LSB sigs by reinserting carrier as though they were USB, the audio comes out of the demod upside down and the audio freq inverter flips it end for end and out comes recognizeable (sort of--it *is* SSB, after all) speech. This does call for nicely symmetrical filters if the same kind of fidelity is to be maintained: if the radio's "bassy" in USB, it'll likely be "tinny" in LSB.

Analog speech inversion is a little tricky--this takes me back to the audio "frequency shifter" we built nearly 20 years ago when I was a BC **radio** Chief--but it can be done. Working with digital audio, it is trivial if you know what you are doing (and a beast if you do not). You can do things in the digital domain that are awfully difficult in analog (my personal favorite was the Hilbert Transform, a very wideband 90-degree phase shift: it takes a couple of handfuls of parts to do this trick in even SS analog but only a few lines of code with digital audio). Don't look at me--I buy digital audio stuff all built up these days, as just about any function we need professionally can be bought inexpensively in a magic black box and it'd be a waste of company money to roll one's own. (It's a horrible admission, but they pay me to know how to interface the stuff, and look after the arcane ol' analog-type things we're pushin' the digits through!)

73,
--Bobbi

KB9GKX "RJ" rbarmore@indy.net Roberta J. (Bobbi) Barmore
FISTS #3388 * G-QRP #10001 * ARRL * RSGB * WIA
Appreciator Of Vacuum-Tube Ham Gear and Vintage Keys

Date: Mon, 10 May 1999 09:01:01 -0500 (EST)
From: "Roberta J. Barmore" <rbarmore@indy.net>
To: Old Tube Radios <boatanchors@theporch.com>
cc: baswaplist <baswaplist@foothill.net>
Subject: WTB: Roll cabinet for Simpson 260 (fwd)
Message-ID: <Pine.SUN.4.10.9905100857170.3850-100000@indy1>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi!

Forwarded for a friend--I always found this bit of hardware slightly awkward but it does protect the meter nicely. Reply to TR, please, not to me! (Will forward replies if need be).

Wanted - Roll top cabinet for Simpson 260 Volt Ohm Meter. Tracy "TR"
WB6TMY Radions@jps.net 707-527-8124 - Thanks!

73,
--Bobbi

Date: Mon, 10 May 1999 09:13:20 -0500 (EST)
From: "Roberta J. Barmore" <rbarmore@indy.net>
To: Old Tube Radios <boatanchors@theporch.com>
cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: recommended lube?
Message-ID: <Pine.SUN.4.10.9905100907250.3850-1000000@indy1>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi!

On "conductive lubricants," Barry's sure right; most of the ones you'll find are good in some limited DC through power-freq apps where there's some control over where the gunk gets but iffy for a roller inductor.

...Back in the dim days of yore, we used "Moly-Kote" in VHF cavities with sliding tuning widgets. The stuff seemed to stay put pretty well if applied with care. But it's Molybdenum Disulfide, and might not be too real healthy to mess with, if it is even still available. Looks and acts a lot like graphite dust, so you'd have to be really careful with it around unglazed ceramic: it'd get into the pores and want to stay there forever! (The OTs would apply this stuff bare-handed--very difficult to wash off and just not a good idea!)

73,
--Bobbi

KB9GKX "RJ" rbarmore@indy.net Roberta J. (Bobbi) Barmore
FISTS #3388 * G-QRP #10001 * ARRL * RSGB * WIA
Appreciator Of Vacuum-Tube Ham Gear and Vintage Keys

Message-ID: <3736ED1B.7161FC43@atd.ucar.edu>
Date: Mon, 10 May 1999 08:28:43 -0600
From: Chip Owens <owens@atd.ucar.edu>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Wanted: Book "Vacuum Tube Oscillators"
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Hi,

The title pretty well says it. I'm looking for a copy of "Vacuum Tube Oscillators" by William A. Edson, published by Wiley in 1953. If you have a copy to sell please let me know.

Thanks, Chip, NW00

--

Chip Owens (owens@atd.ucar.edu)

Date: Mon, 10 May 1999 11:26:17 -0400 (EDT)
Message-Id: <199905101526.LAA22044@pop.uky.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: Old Tube Radios <boatanchors@theporch.com>
From: "William L. Fuqua III" <wlfuqu00@pop.uky.edu>
Subject: Dayton List of boat anchor folks

I have sorted the list by flea market space number.
I did not have many replies but here is what I have
to date.

See you in Dayton.

73

Bill wa4lav

Charles Lamb		546,547,548
Kim Herron	W8ZV	1747,1748,1749
Tony Schroeder	N8SNC	2143,2144
Dave	W3ST	2317,2318 Collins Restoration and Service,
Collins Journal		
Bill	W8FIX	2352
Bill	WA4LAV	2390,2391
Jim	W8ZR	2763,2764
Ed	w4kma	2828,2829,2830,2831
John Goller,	K9UWA	2843,2844,2845
Bruce Sugarberg		2878,2879 (By Gate A)
Jim Bolin	KB8NN	2982,2983, 2984
Jay H. Miller	KK5IM/K1JNN/W5BGP	3018,3019
GEORGE J MISIC	K3HX es KE8RN	3225,3226 Lots of boatanchors
Mike W4FJJ		3416 DX-60b /HG-10b,R-4a,magnetic keyer
paddles thatI custom make		
Russ		4066,4067

William L. Fuqua III P.E. E-mail WLFUQU00@POP.UKY.EDU Phone (606) 257-4155
Department of Physics and Astronomy CP-177 Chem. Phys. Bldg.
University of Kentucky , Lexington, Ky 40506-0055

Message-ID: <001e01be9afc\$0155f840\$34ef490c@SandyBlaize>
From: "Sandy Blaize" <ebjr@worldnet.att.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: DAYTON FOLKS...Keep eyes peeled!
Date: Mon, 10 May 1999 10:36:42 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

To any of the Dayton crowd...
Keep your eyes peeled for a manual for the RAK-7/RAL-7
receiver!

When I was there once, there seemed to be a few tables
chocked with books/manuals. If you see one for less than \$25-30
in good condition and
complete, I need one!

73,
Sandy W5TVW

Date: Mon, 10 May 1999 11:56:22 -0400 (EDT)
From: cswiger <cswiger@wilma.widomaker.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: LSB mod for military radios
Message-ID: <Pine.BSF.3.96.990510115237.26359A-100000@wilma.widomaker.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

>You still have one problem left as David Newkirk points out. The
>transmitted sideband is still ABOVE the RF carrier frequency (upside
>down erect sideband, or right side up inverted sideband?). You can't
>depend on an absolute receiving frequency because you don't know
>exactly where the "carrier" is unless told where to listen. Not a
>problem if you are just

This is very much like AFSK - one can equally use LSB with
'normal' mark/space tones, or USB with 'inverted' mark/space,
the other end will never know the distance - just where you tune

the xmrt/rcvr will change. Been there, done that. So it appears that, theoretically, feeding inverted audio into a USB mil set should deliver intelligible audio to a LSB rcvr, as long as the carriers ('center' frequencies) are (off)set appropriately.

Now to raise funds for the actual experiment...
Actually, that wouldn't be too hard to do in the lab - inverted audio can be derived from a SSB set w/ good filters (tune in a lively qso in LSB, tune down 3kc and switch to usb, barring qrm) then retransmit USB on a clear freq into a dummy load or qrp, and pickup on another set LSB - see what happens. Should be fun.

Chuck
kb4new
cswiger@widomaker.com

Message-Id: <99May10.110502cdt.155025@firewall.sigg.com>
Date: Mon, 10 May 1999 11:04:06 -0500
From: Bob Reynolds <breynold@sigg.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: recommended lube? -Reply
Mime-Version: 1.0
Content-Type: text/plain
Content-Disposition: inline

Bobbi wrote:

>
>But it's Molybdenum Disulfide, and might
>not be too
>real healthy to mess with, if it is even still
>available. Looks and acts
>a lot like graphite dust, so you'd have to be
>really careful with it ... (The OTs would
>apply this stuff bare-handed--very difficult
>to wash off and just not a good idea!)

The stuff was available in a suspension known as "DRI-SLIDE" in sporting goods stores to lubricate gun parts used in very cold climates. It is available if you know has access to the stuff, and is not picky about who wants it.. Guess I'm an OT because i did it with bare hands - it comes off only when your skin comes off !

73, Red K5VOL

Message-Id: <3.0.6.32.19990510100732.007b0a30@mail.willapabay.org>
Date: Mon, 10 May 1999 10:07:32 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: David Ross <ross@hypertools.com>
Subject: Re: LSB mod for military radios
Cc: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

John -

Thanks for the note of explanation. Can a DC receiver detect ISB?

At 10:25 PM 05/09/99 -0700, John Kolb wrote:

>A DC receiver would detect a LSB signal exactly the same way it
>detects an USB one.

>

>A USB transmission of 7.2 MHz would transmit a 1 kHz audio tone
>as 7,201 kHz, and the DC receiver would mix the received signal
>with a 7,200 kHz VFO to generate a 1 kHz recovered audio freq.

>

>A LSB transmission of 7.2 MHz would transmit a 1 kHz audio tone
>as 7,199 kHz, and the DC receiver would mix the received signal
>with a 7,200 kHz VFO to generate a 1 kHz recovered audio freq.

73

Dave Ross N7EPI ross@hypertools.com

Date: Mon, 10 May 1999 13:15:46 -0400
From: Don <71333.144@compuserve.com>
Subject: Hallicrafters SX-10 FS
To: Old Tube Radios <boatanchors@theporch.com>
Cc: baswaplist <baswaplist@foothill.net>
Message-ID: <199905101318_MC2-751F-9761@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

This is a rare BA. One of the first commercial VHF receivers ever made, it covers 5.5-79mc. Bill Orr says that less than 200 were made. This one is all original and in nice cosmetic condition. Equally rare, it has the matching hallicrafters PM-12 speaker with original grille cloth. The

speaker has some rust spots on two sides but is very nice--one of those rare ones that draws eyes and comments. Untested and presumed to need restoration. A fine addition to any BA collection. The price is high because I need the money. If it doesn't sell here it's headed to eBay. \$1,300 or best offer.

Thanks.

73, Don Merz, N3RHT

71333.144@compuserve.com

Message-Id: <199905101731.NAA20327@cliff.concentric.net>

From: "John K9UWA" <k9uwa@cris.com>

To: Old Tube Radios <boatanchors@theporch.com>

Date: Mon, 10 May 1999 12:31:55 -0500

MIME-Version: 1.0

Content-type: text/plain; charset=US-ASCII

Content-transfer-encoding: 7BIT

Subject: Hammarlund Super Pro parts radio

I have a very rusty....junker.....hammarlund super pro...

Anyone need IF cans Dials seem to move and work...coils switches

etc....any parts you need for one of these??...

E-Mail your needs.

John K9UWA

John Goller, K9UWA & Jean Goller, N9PXF

Antique Radio Restorations

k9uwa@cris.com

k9uwa@concentric.net

<http://www.concentric.com/~k9uwa/>

Date: Mon, 10 May 1999 10:33:43 -0700 (PDT)

From: John Kolb <jlkolb@cts.com>

To: Old Tube Radios <boatanchors@theporch.com>

cc: Old Tube Radios <boatanchors@theporch.com>

Subject: Re: LSB mod for military radios (long)...0ooooooooohhhhhh!

Message-ID: <Pine.SCO.4.05.9905101031430.23452-100000@sd.cts.com>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 10 May 1999, Arden Allen wrote:

> You still have one problem left as David Newkirk points out. The
> transmitted sideband is still ABOVE the RF carrier frequency (upside down
> erect sideband, or right side up inverted sideband?). You can't depend on

> an absolute receiving frequency because you don't know exactly where the
> "carrier" is unless told where to listen. Not a problem if you are just
> tuning the bands and listening. I don't think military rigs have split
> mode capability so you would have to change operating frequency between
> transmit and receive. I don't think we have a practical modification yet.

I don't think that's a problem - we have to invert both the transmitted
audio and the received audio, since the mil rig is on the wrong
sideband for both tx and rx.

John

End of BOATANCHORS Digest 2540
